

Physical Science Lesson

South Philadelphia HS-December 3rd & December 10th, 2009

Ms. Millington & Ms. Granese

Objective

Today we will demonstrate understanding of the structure and measurable properties of atoms and sub-atoms.

You will know you have learned this when you can create an illustrated comic of the atomic structure of an element inclusive of classification and identified properties.

Standard Addressed:

- Know that atoms are composed of even smaller sub-atomic structure whose properties are measurable. (3.4.10.A.1)

21st Century Skills Addressed:

- Creativity & Innovation
- Communication and Collaboration

Project Goals

Work with a partner to identify a chemical element that you will research from the Periodic Table of Elements. Use the attached worksheet to record the following information about the element you have chosen:

1. Name/Symbol of Element
2. Atomic Number & Mass
3. Name of Element Family
4. Classification of Element (Metal, Nonmetal, Metalloid)
5. Electron Configuration (Bohr Model)
6. Number of Neutrons, Protons, Electrons
7. Inventor Surname
8. Date of Discovery
9. Melting & Boiling Point
10. Two Potential Uses

Create a one-page comic strip that includes the ten components for your element. A sample template has been created and can be downloaded at <http://cff-highschools-jgranese.wikispaces.com/Documents>. You may design your own layout if you choose. You will also find links to websites that will provide you with information about elements. Use Photo Booth and be the stars of your own comic strip.

Assessment

You will be given two class periods to complete this assignment. View the attached grading rubric and use it as a self-assessment tool. Be creative by using humor and imagination in your comic. Document the sources of your information; including graphics, in a separate document entitled "Works Cited". This can be created at <http://www.easybib.com>.